

1/3

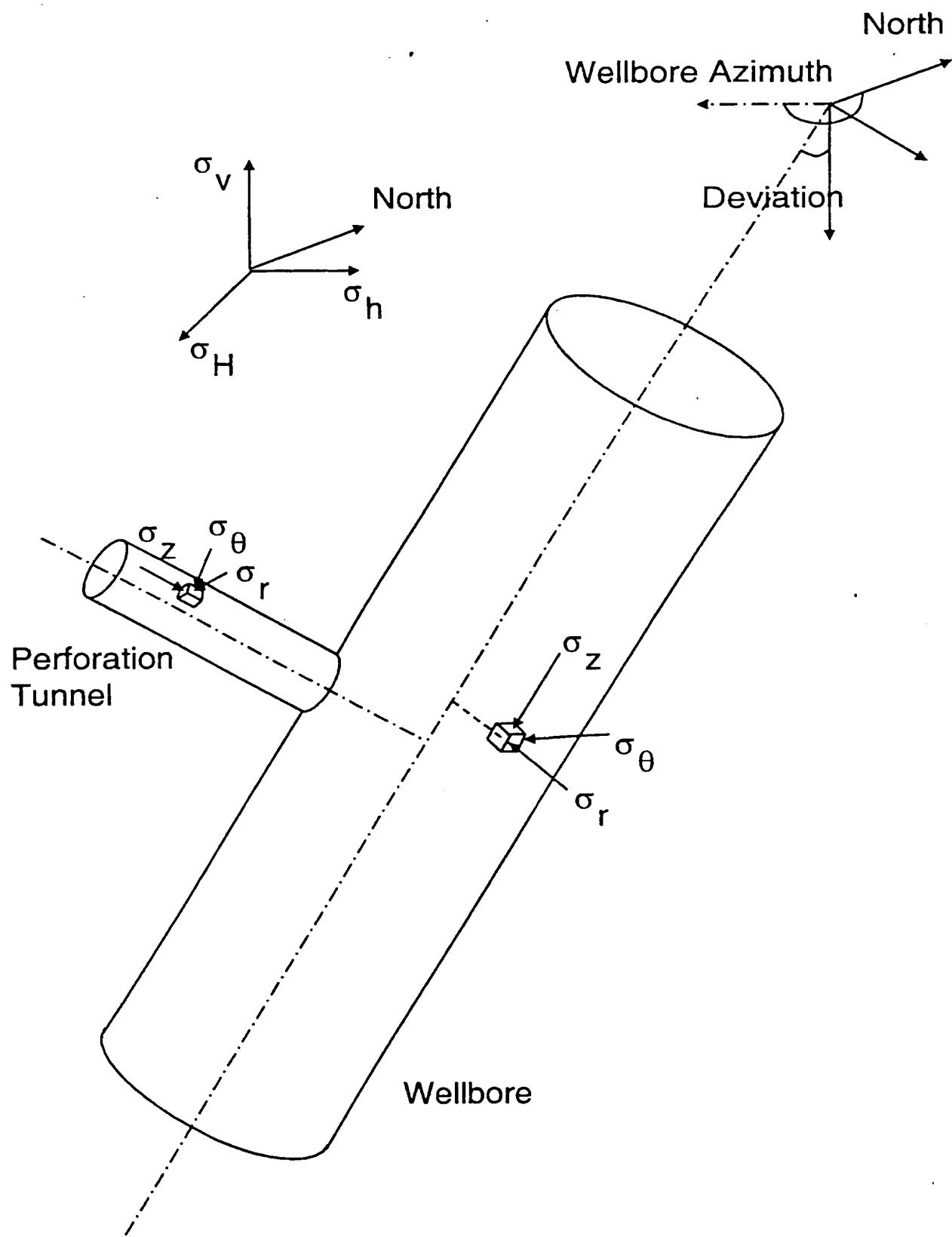


FIG. 1

2/3

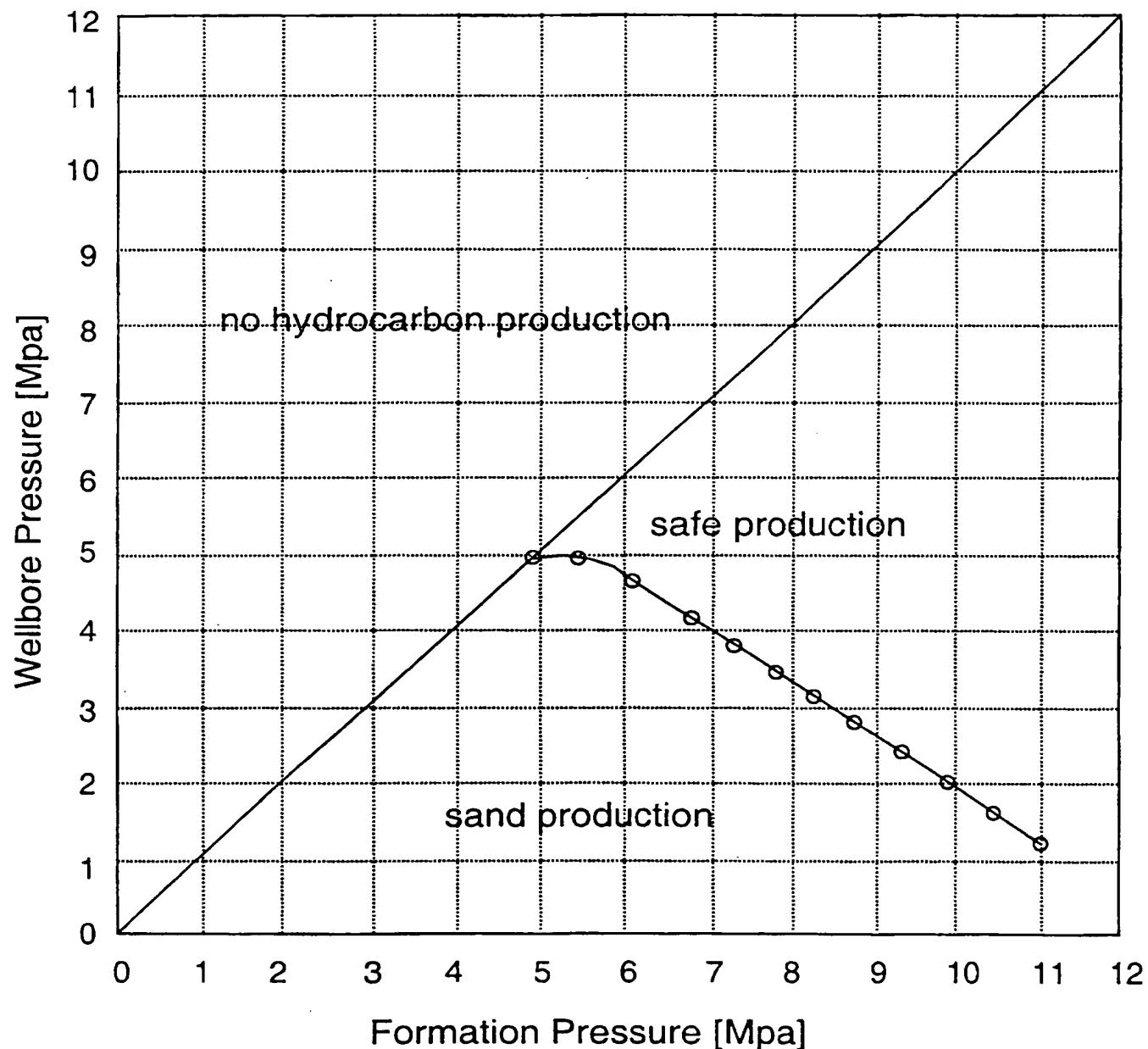


FIG. 2



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3/3

Measuring a set of parameters relating to pressure conditions and stresses in the rock formation surrounding the subterranean cavity

determine rock strength using the set of parameter

determining a first characteristic length relating to the size of the cavity

determining a second characteristic length relating to the grain size of the rock formation surrounding the cavity

using the first and second characteristic lengths to determine a correction for the rock strength

correcting said rock strength

using a failure criterion and the corrected rock strength to predict a condition under which the rock formation is expected to produce debris

FIG. 3